

NO. 266

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SERVICE MANUAL

CX-550 XENON

CX-550 Xenon projector is a sister model of CX-350 Xenon projector and incorporates 550W brighter Xenon-arc lamp and 80W powerful amplifier.

The specifications and operation procedure of CX-550 Xenon are the same as those of CX-350 Xenon except xenon-arc lamp and amplifier.

For servicing the projector, please refer to the service manual for CX-350 Xenon along with this service manual for CX-550 Xenon.

ELMO CO., LTD.

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1. GENERAL INTRODUCTION

1 - 1 Specifications

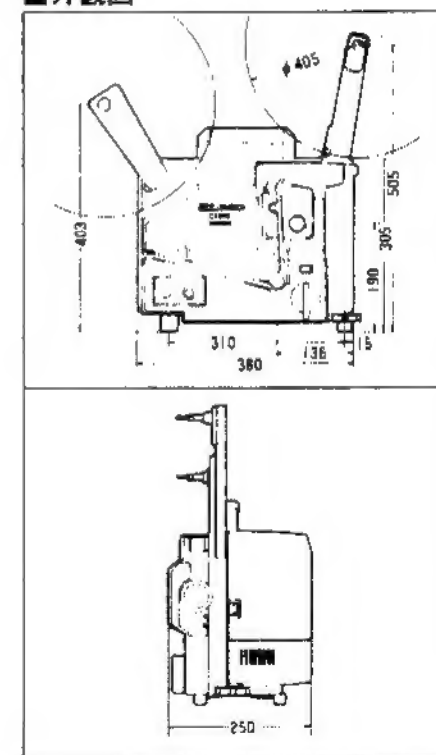
Model Name		CX-550 Xenon	CX-350 Xenon
Item			
Ratings:	Power source	Single phase, AC 50/60 Hz	←
	Reel capacity	Max. 720 m (2400 ft) usable; supplied reel: Auto-winding type with capacity of 480 m (1600 ft)	←
Projection Mechanism Section:	Projection speed	24 fps	←
	Film	Optical and magnetic sound films of 16 mm, laser optical sound film	←
	Projection lens	Standard lens 50 mm f/1.2	←
	Projection lamp	550W Xenon arc lamp	350W Xenon arc lamp
	Power source	Switching regulator type with low power consumption	←
	Condensing (optical) system	Horizontal light condensing system dichroic mirror (cold mirror)	←
	Motor	Induction motor	←
	Film threading	Channel loading	←
	Loop restorer	Automatic	←
	Quick review	Possible	←
	High speed rewinding	Possible	←
	Remote control	Possible (lamp, motor, douser); cord: 8 m	←

Model Name		CX-550 Xenon	CX-350 Xenon
Item			
Sound Playback System:	Amplifier	All IC's	←
	Output	Max. 80W (8Ω load)	Max. 40W (8Ω load)
	Tone control	Possible	←
	Public address	Possible (microphone impedance: 500Ω ~ 10 kΩ)	←
	Speaker	12.5 cm dynamic speaker × 1	←
Dimensions and Weight:	AUX output	AUX output terminal (600Ω MAX O db) provided	←
	Dimensions	L380 mm × W250 mm × H305 mm (Installation width of front cover with speakers = 310 mm)	L380 mm × W250 mm × H305 mm (Installation width of front cover with speakers = 300 mm)
	Weight	Main body: 15.4 kg, Front cover with speakers: 2 kg	Main body: 15.0 kg, Front cover with speakers: 2 kg

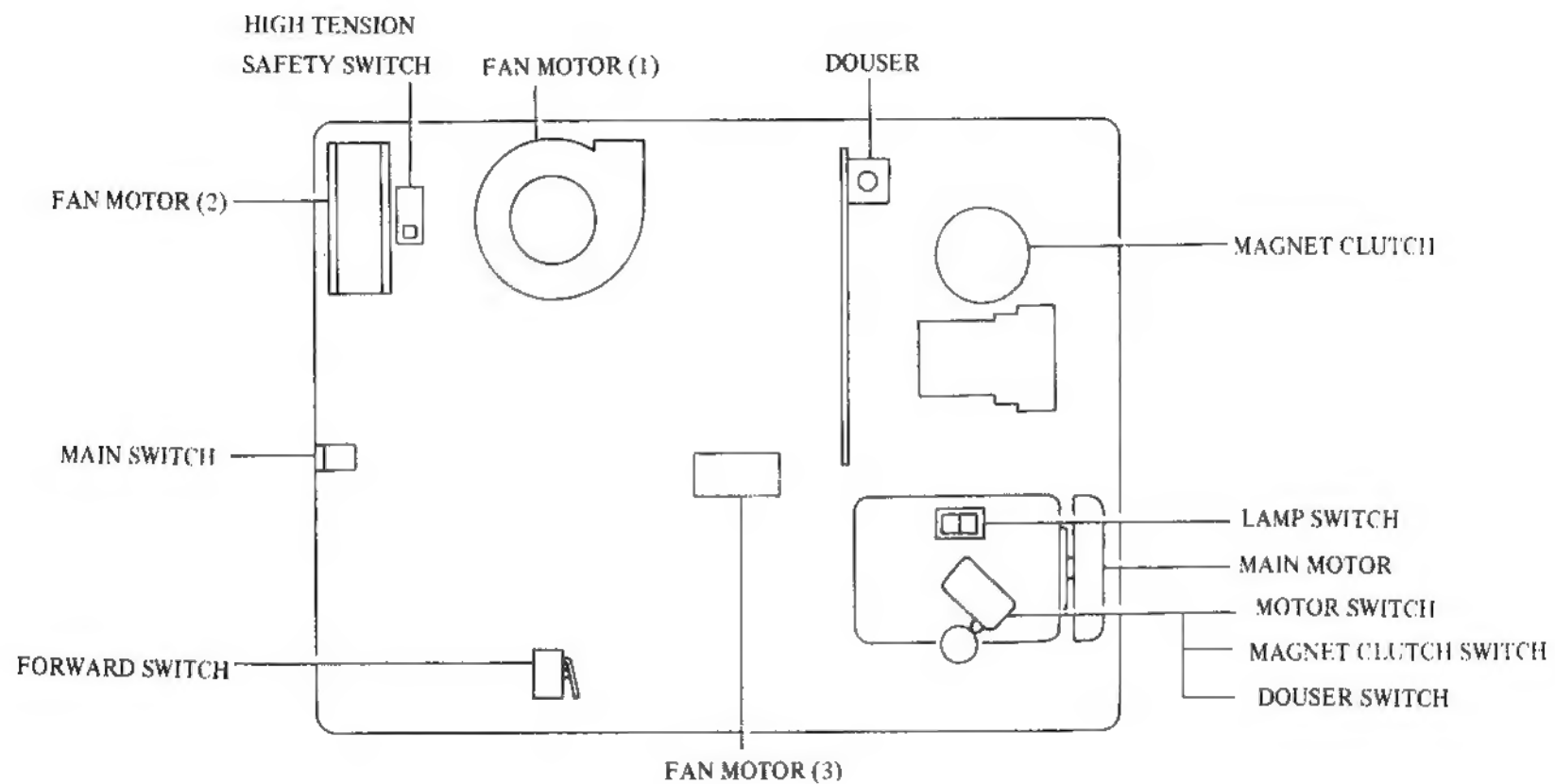
I - 2 Differences in Specifications

Item	Model Name	
	CX-550 XENON	CX-350 XENON
Projection Lamp	550W	350W
Amplifier Output (w/8 ohm load)	Rated : 50W Max. : 80W	Rated : 25W Max. : 40W
Cooling Fan Motor	3 pcs.	2 pcs.
Power Consumption	1 KVA	750 VA
Dimensions (Exclude carrying handle part)	L380 × W250 × H305 (Installation width of front cover speakers = 310 mm)	L380 × W250 × H305 (Installation width of front cover speakers = 300 mm)
Weight (Front cover with speakers)	15.4 kg 2 kg	15.0 kg 2 kg

■外觀圖



I - 3 Layout of Electrical Parts (Outside view)



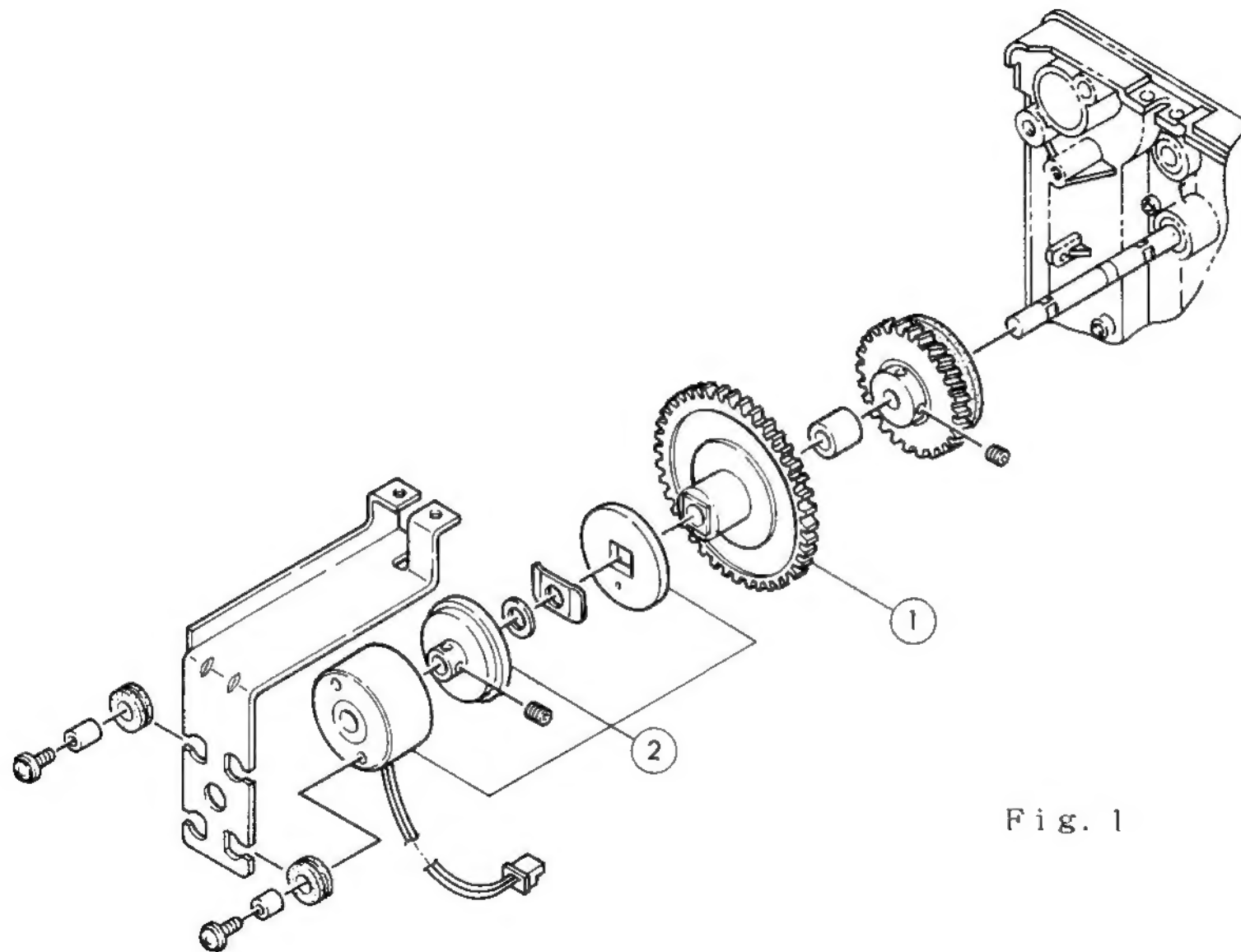


Fig. 1

II. DRIVING MECHANISM

Driving mechanisms of CX-550 Xenon are almost same as those of CX-350 Xenon and that this service manual shows only exclusive parts for CX-550 Xenon.

II - 1 Rewinding Mechanism

Differences in Rewinding Mechanism Section

Model Name	Abbr. No.	
	CX-550 Xenon	CX-350 Xenon
①	P/N 4M45795	P/N 4M41027
②	6Y49491008	6Y49491006
	—	6B10801601

As to disassembly and reassembly procedure, please refer to service manual for CX-350 Xenon (p. 40 ~ p. 42).

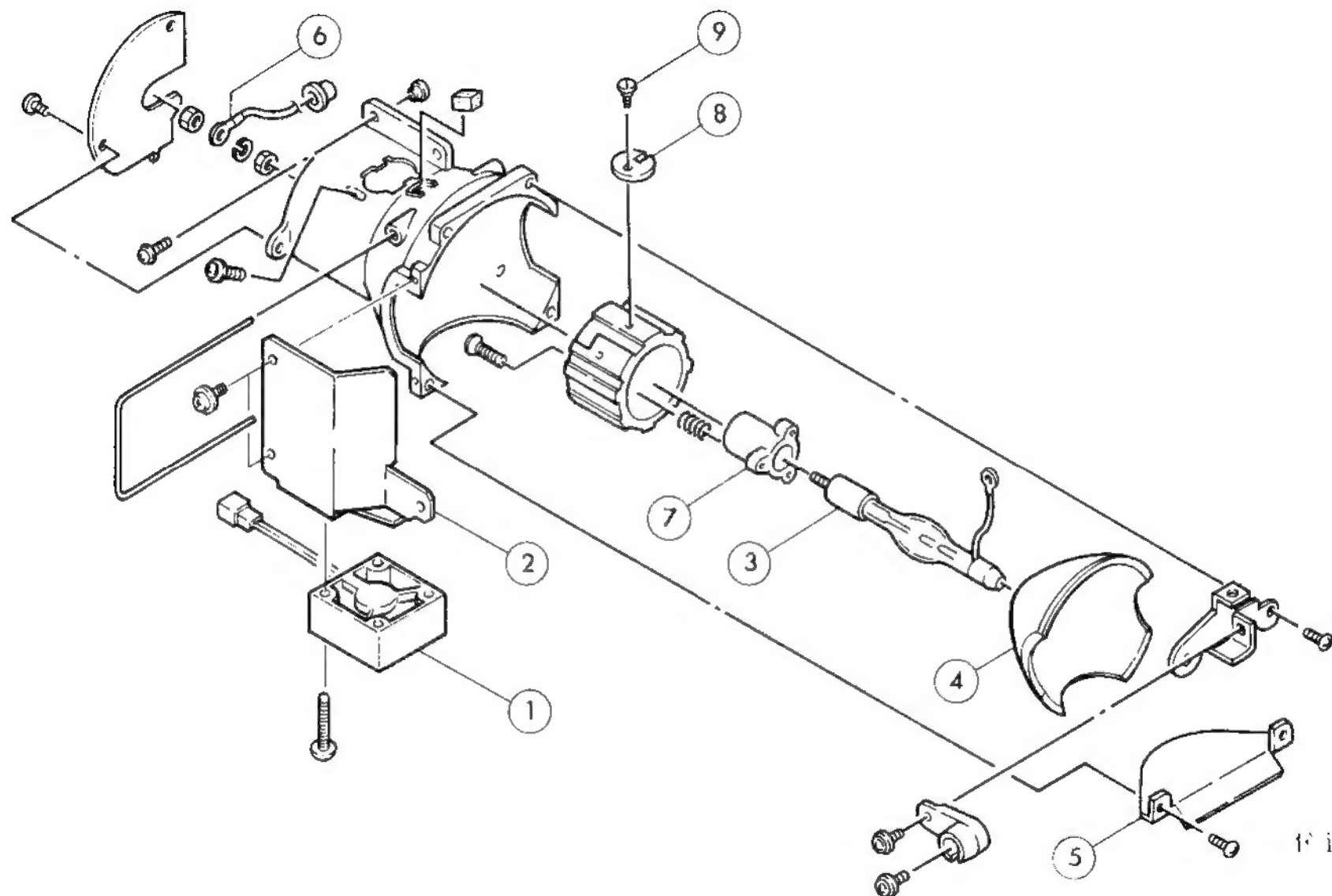


Fig. 2

II - 2 Xenon-arc Lamp

Differences in Xenon-arc Lamp Section

Model Name Abbr. No.	CX-550 Xenon	CX-350 Xenon
	P/N	P/N
①	4K02480	
②	4M46071	4M31167
③	4M45662	4E44039
④	4L30020	4L30018
⑤	4M46069	4M44192
⑥	4K02474	4K01946
⑦	4M46070	4E43055
⑧	P313883C	P413883
⑨	6M7B401001	4P55928

As to disassembly and reassembly procedure, please refer to service manual for CX-350 Xenon (p. 60).

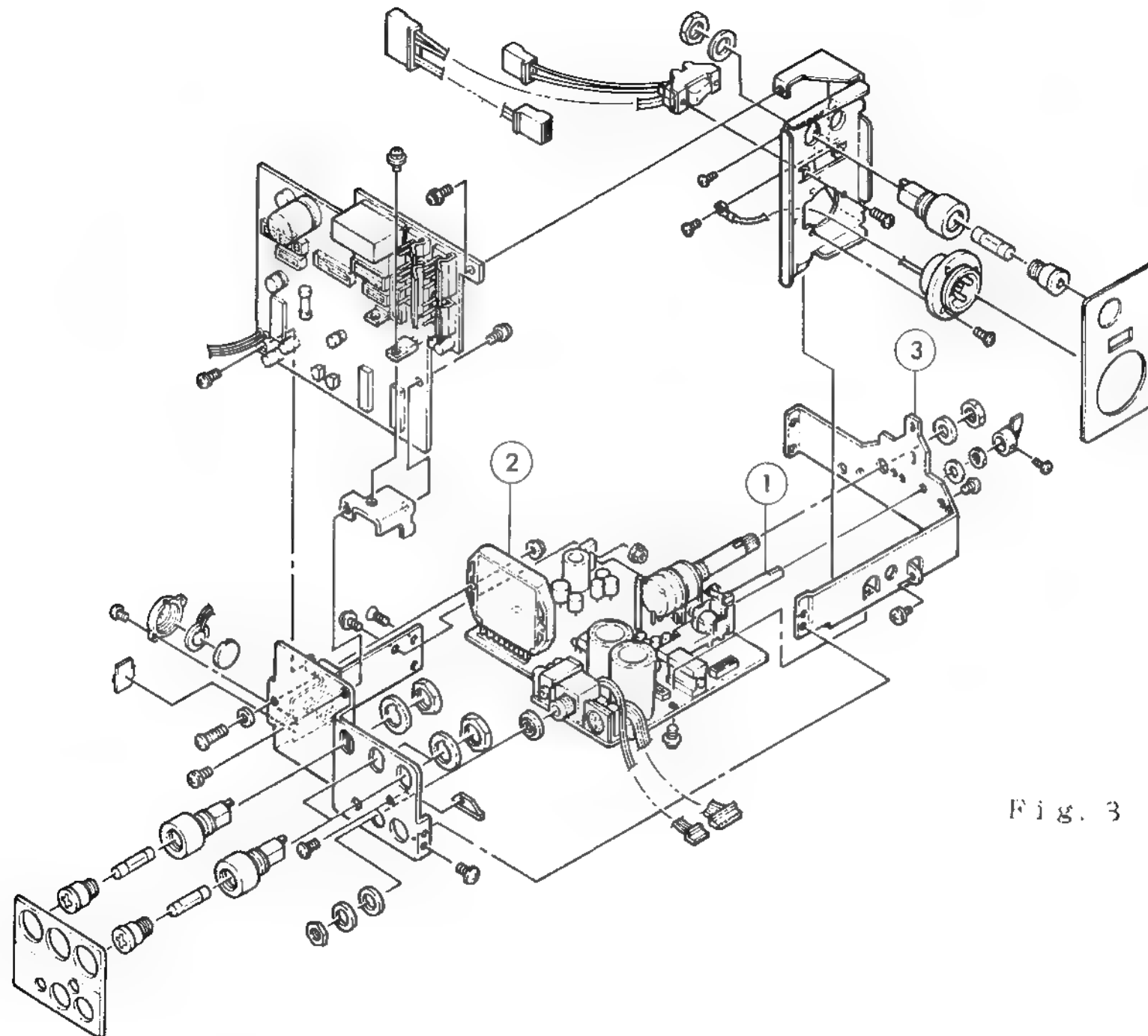


Fig. 3

II - 3 Amplifier Assembly

Difference in Amplifier Assembly

Model Name Abbr. No.	CX-550 Xenon	CX-350 Xenon
①	P/N 5E3023 ---	P/N 5E5072 4M42699 4M42701 4M42700
②	5ASTK4136	5ASTK080
③	4M46103	4M20372

As to disassembly and reassembly procedure, please refer to service manual for CX-350 (p. 58).

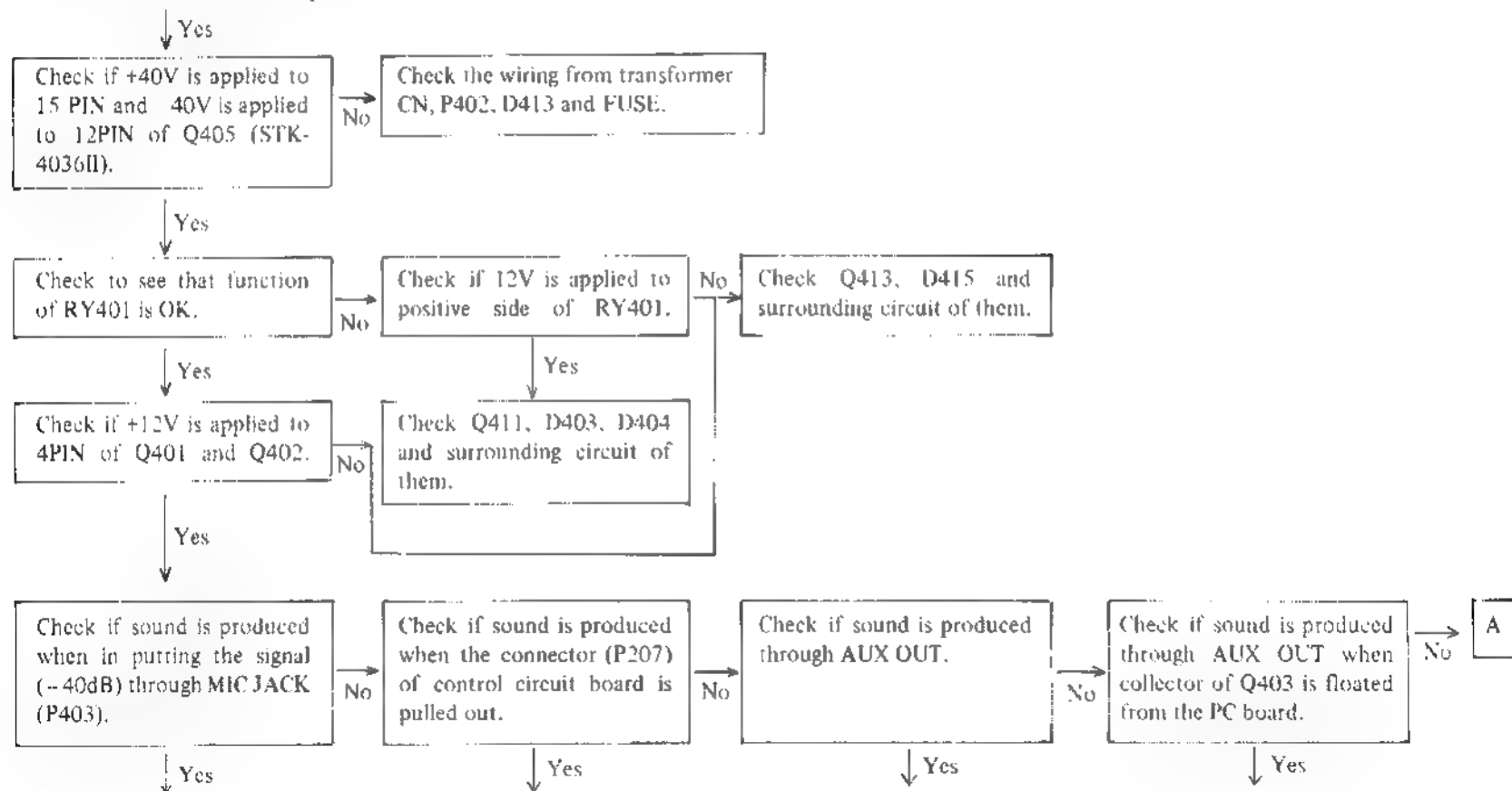
III. ELECTRICAL CIRCUIT

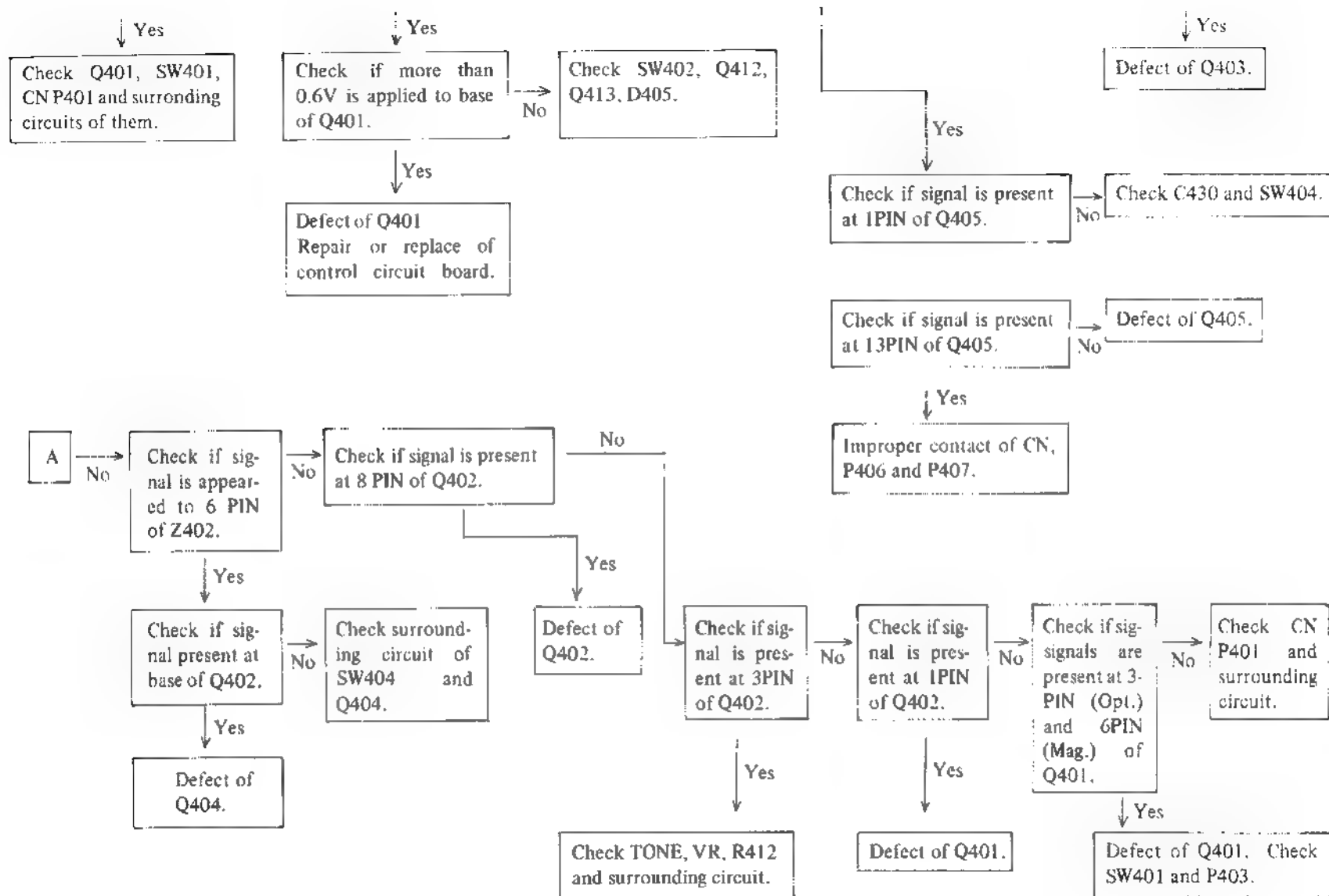
Refer to the service manual for CX-350 Xenon (p. 81 ~ p. 103).

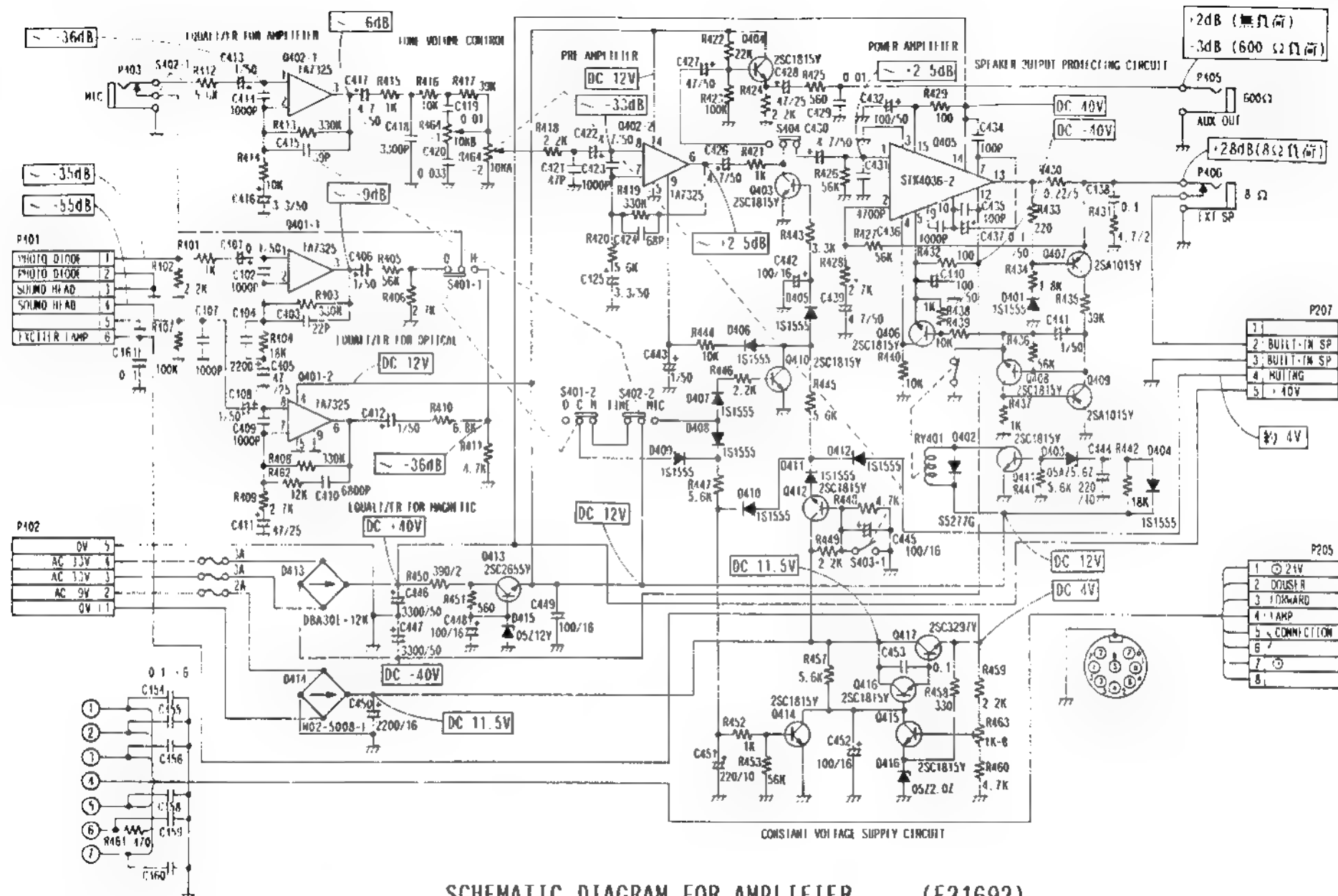
III 1 Amplifier Circuit (Trouble-shooting Hints)

Failure in replay (optical/magnetic)

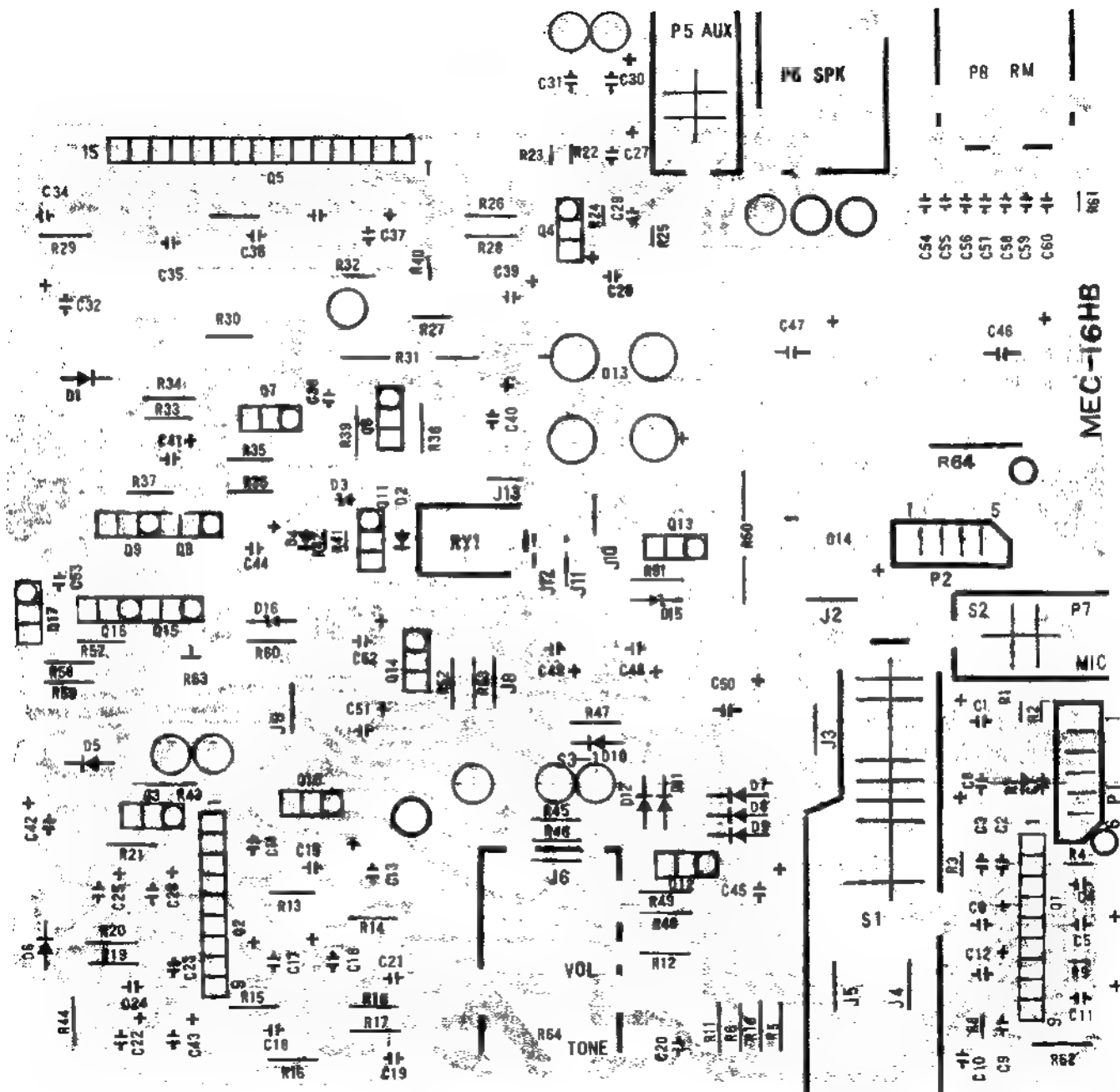
Check fuse for blow out and speaker for disconnection.

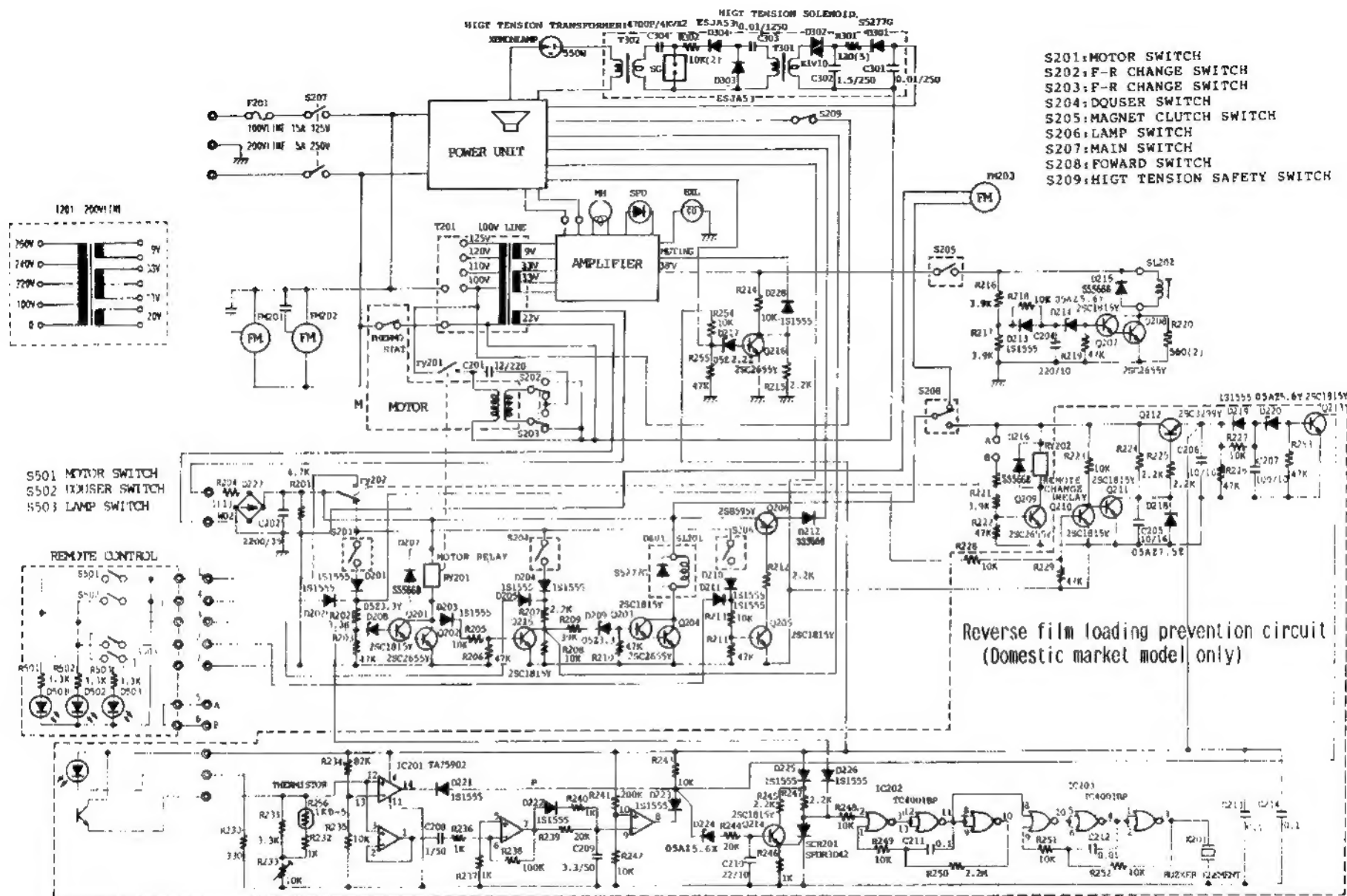






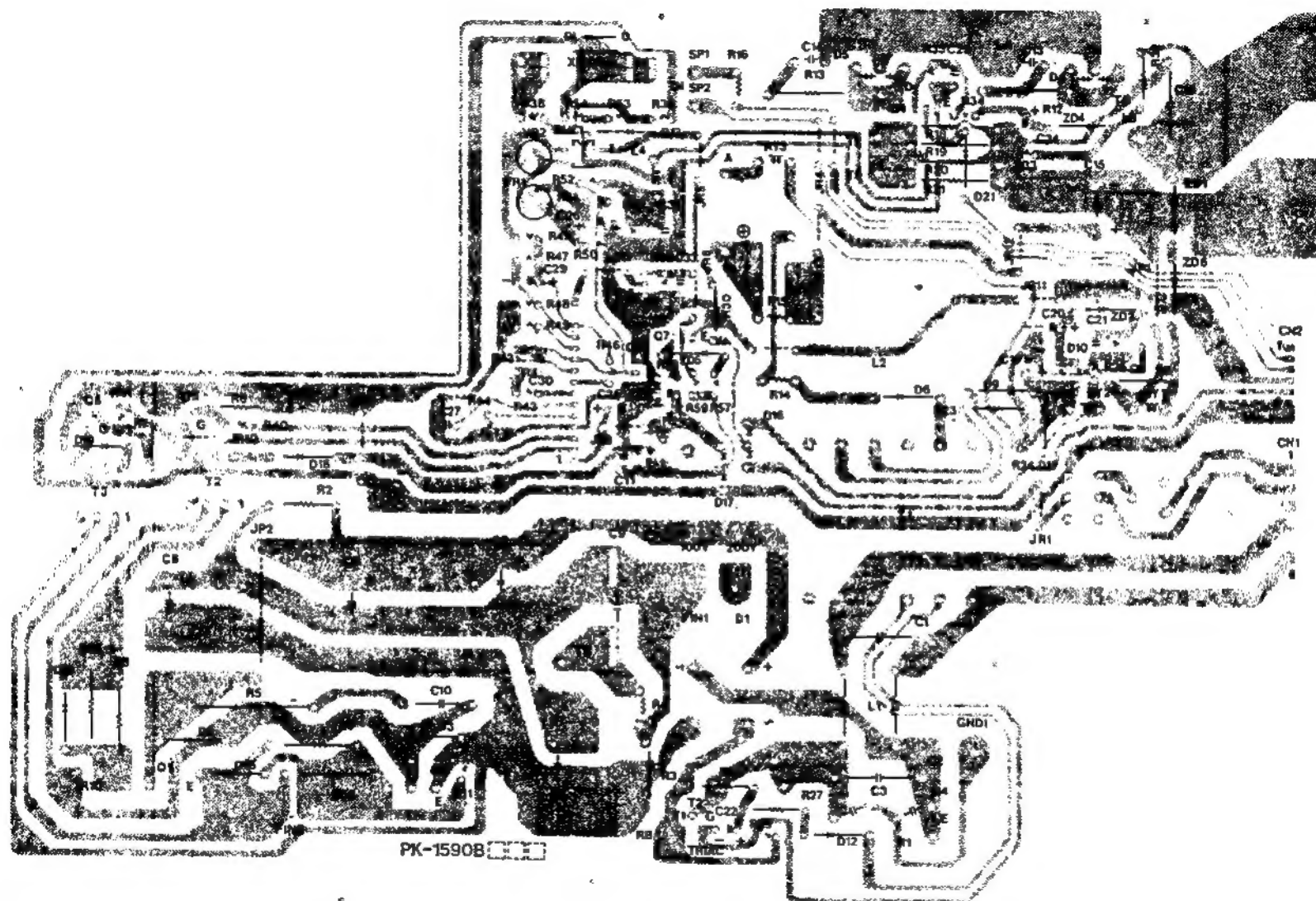
SCHEMATIC DIAGRAM FOR AMPLIFIER (E21692)





SCHEMATIC DIAGRAM FOR MACHINE

E21694



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